

ABSTRACT

Disclosed is a waveguide-type dielectric filter, which comprises a dielectric block, a plurality of resonators formed in the dielectric block, and a coupling portion for adjusting the coupling between the adjacent resonators. The dielectric block includes a pair of dielectric substrates which are divided in the arranging direction of the resonators and joined together through joint surfaces thereof, and a slot formed between the joint surfaces. The slot defines a through-hole severing as the coupling portion between the adjacent resonators. The slot may be formed in each of the joint surfaces or may be formed in only one of the joint surfaces. The above dielectric filter may include input and output sections, and a conductive film may be formed between the joint surfaces to provide a coupling portion of the input or output section. The present invention can provide a waveguide-type dielectric filter capable of being readily produced without causing any problem of mechanical strength.

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